

ABSTRACT OF THE DISCLOSURE

Disclosed herein are a magnetic recording medium having a high coercive force and being capable of high-density writing/reading, a magnetic recording apparatus equipped with said magnetic recording medium, and a process for producing said magnetic recording medium.

The magnetic recording medium is composed of a substrate, a soft magnetic layer, a non-magnetic intermediate layer, a magnetic layer, a protective layer, and a lubricating layer. The magnetic layer is characterized by the product of the stacking fault density and the dispersion of particle diameters which is no larger than 0.02. The stacking fault density should preferably be no larger than 0.05, and the dispersion of particle diameters should preferably be no larger than 0.4.

The magnetic recording medium has a coercive force larger than 4000 Oe, is highly stable to thermal decay, and has a recording density in excess of 50 Gbit/in².

BEST AVAILABLE COPY